

What is claimed is:

1. A flooring system supported by a concrete slab of a building structure comprising:
 - a wood subfloor supported by the concrete slab;
 - a wood finished floor supported by the wood subfloor;
- 5 a moisture and condensation barrier layer coated onto the wood subfloor, the moisture and condensation barrier layer comprising a liquid rubberized coating material having a thickness sufficient to prevent moisture and condensation from penetrating from below the moisture and condensation barrier layer to above the moisture and condensation barrier layer.
2. A flooring system as defined in claim 1 wherein the moisture and condensation barrier layer has about a 6-to-8-mil thickness of the liquid rubberized coating material.
3. A flooring system as defined in claim 1 further comprising:
 - a radiant heating system supported by the concrete slab and disposed under the wood subfloor and the moisture and condensation barrier layer, the radiant heating system providing heat to the flooring system and the
- 5 building structure;
 - and wherein the moisture and condensation barrier layer prevents moisture and condensation from penetrating from the radiant heating system to above the moisture and condensation barrier layer.
4. A flooring system as defined in claim 1 wherein the liquid rubberized coating material cures into a solid after being coated onto the wood subfloor.
5. A flooring system as defined in claim 1 wherein the wood subfloor comprises a plurality of wood boards having the liquid rubberized coating material coated onto the wood boards.
6. A flooring system as defined in claim 5 wherein:
 - the liquid rubberized coating material is coated onto only one side of the wood boards; and

- the wood boards are placed in the wood subfloor with the coated side
- 5 face down.
7. A flooring system as defined in claim 5 wherein:
- the liquid rubberized coating material is coated onto only one side of
the wood boards; and
- the wood boards are placed in the wood subfloor with the coated side
- 5 face up.
8. A flooring system supported by a concrete slab of a building structure
comprising:
- a wood subfloor supported by the concrete slab;
- a wood finished floor supported by the wood subfloor;
- 5 a moisture and condensation barrier sheet disposed between the
concrete slab and the wood finished floor adjacent to the wood subfloor and not
attached to the wood finished floor, the moisture and condensation barrier sheet
having a petroleum-based tar layer having a thickness sufficient to prevent
moisture and condensation from penetrating from below the moisture and
10 condensation barrier sheet to above the moisture and condensation barrier sheet.
9. A flooring system as defined in claim 8 wherein the moisture and
condensation barrier sheet has about a 40-mil thickness of the petroleum-based
tar layer and a plastic overlay.
10. A flooring system as defined in claim 8 further comprising:
- a radiant heating system supported by the concrete slab and
disposed under the wood subfloor and the moisture and condensation barrier, the
radiant heating system providing heat to the flooring system and the building
5 structure;
- and wherein the moisture and condensation barrier prevents
moisture and condensation from penetrating from the radiant heating system to
above the moisture and condensation barrier.
11. A flooring system as defined in claim 8 wherein:

the moisture and condensation barrier sheet is not attached to the wood subfloor.

12. A flooring system as defined in claim 8 wherein:
the moisture and condensation barrier is below the wood subfloor.
13. A flooring system as defined in claim 8 wherein:
the moisture and condensation barrier is above the wood subfloor.
14. A method of forming a flooring system supported by a concrete slab
in a building structure comprising:
coating a plurality of wood boards with a moisture and condensation
barrier material having a liquid rubberized coating material;
5 placing the coated wood boards onto the concrete slab to form a
wood subfloor having a moisture and condensation barrier that prevents moisture
and condensation from penetrating from below the moisture and condensation
barrier to above the moisture and condensation barrier; and
installing a wood finished floor over the wood subfloor.
15. A method as defined in claim 14 further comprising:
coating the wood boards with the liquid rubberized coating material
that cures into a non-tacky solid to form the moisture and condensation barrier
material.
16. A method as defined in claim 14 further comprising:
before placing the coated wood boards onto the concrete slab,
installing a radiant heating system onto the concrete slab, the radiant heating
system being for heating the flooring system and the building structure; and
5 placing the coated wood boards over the radiant heating system to
prevent moisture and condensation from reaching the wood finished floor from the
radiant heating system.
17. A method as defined in claim 14 further comprising:
coating only one side of each wood board; and
placing the wood boards onto the concrete slab with the one coated
side face down to prevent moisture and condensation from penetrating from below

- 5 the moisture and condensation barrier to the wood subfloor and wood finished floor.
18. A method as defined in claim 14 further comprising:
coating only one side of each wood board; and
placing the wood boards onto the concrete slab with the one coated side face up to prevent moisture and condensation from penetrating from below
- 5 the moisture and condensation barrier to the wood finished floor.
19. A method of forming a flooring system supported by a concrete slab in a building structure comprising:
installing a wood subfloor onto the concrete slab;
placing a moisture and condensation barrier sheet adjacent to the
- 5 wood subfloor, the moisture and condensation barrier sheet having a petroleum-based tar layer having a thickness sufficient to prevent moisture and condensation from penetrating from below the moisture and condensation barrier sheet to above the moisture and condensation barrier sheet; and
installing a wood finished floor over the wood subfloor and moisture
- 10 and condensation barrier sheet and not attached to the moisture and condensation barrier sheet.
20. A method as defined in claim 19 wherein the moisture and condensation barrier sheet has about a 40-mil thickness of the petroleum-based tar layer and a plastic overlay.
21. A method as defined in claim 19 further comprising:
before installing the wood subfloor, installing a radiant heating system onto the concrete slab, the radiant heating system being for heating the flooring system and the building structure;
- 5 installing the wood subfloor over the radiant heating system; and
placing the moisture and condensation barrier sheet above the radiant heating system to prevent moisture and condensation from reaching the wood finished floor from the radiant heating system.
22. A method as defined in claim 19 further comprising:

5 placing the moisture and condensation barrier sheet under the wood subfloor to prevent moisture and condensation from penetrating from below the moisture and condensation barrier sheet to the wood subfloor and wood finished floor.

23. A method as defined in claim 19 further comprising:

placing the moisture and condensation barrier sheet over the wood subfloor to prevent moisture and condensation from penetrating from below the moisture and condensation barrier sheet to the wood finished floor.

24. A building construction material comprising:

a wood board; and

a moisture and condensation barrier comprising a liquid rubberized coating material coated onto the wood board, the moisture and condensation

5 barrier having a thickness sufficient to prevent moisture and condensation from penetrating from below the moisture and condensation barrier layer to above the moisture and condensation barrier layer.

25. A building construction material as defined in claim 24 wherein the liquid rubberized coating material is coated onto only one side of the wood board.

26. A building construction material as defined in claim 24 wherein the moisture and condensation barrier has about a 6-to-8-mil thickness of the liquid rubberized coating material.

27. A building construction material as defined in claim 24 wherein the liquid rubberized coating material cures into a solid after being coated onto the wood board.

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